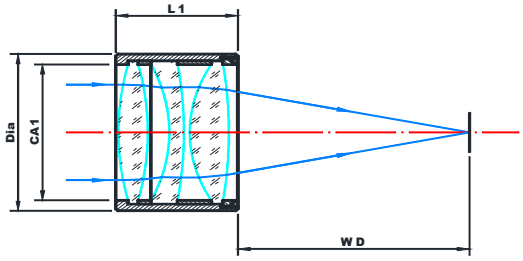
Air Spaced Series - Focusing Lens

The purpose of developing Air-Spaced focusing lens is to minimize aberration and achieve smallest spot size. The achromatic triplet focusing lens is color corrected, both working laser beam and inspection visible beam will focus on the same or closest focus point.

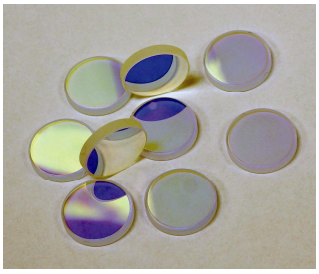


Part No.	EFL (mm)	CA1 (mm)	Dia (mm)	L1 (mm)	WD (mm)	Type	Wavelength	Remark
YAGFL25	25.2	26.0	18.0	19.5	18.0	Triplet	1064nm	-
YAGFL47	46.4	41.0	30.0	32.5	34.0	Triplet	1064nm	-
YAGFL50	50.0	36.0	19.0	29.3	26.0	Triplet	1064nm	-
YAGFL50W	50.0	36.0	26.0	32.3	26.0	Triplet	1064nm	With window
YAGFL58	58.2	41.0	23.0	49.0	34.0	Triplet	1064nm	-
YAGFL66	65.8	34.0	20.5	53.4	24.0	Doublet	1064nm	-
YAGFL77	77.0	41.0	23.0	67.9	34.0	Triplet	1064nm	-
YAGFL81	80.6	60.0	24.5	64.5	46.0	Triplet	1064nm	-
YAGFL100W	100.2	23.0	29.0	18.0	86.9	Doublet	1064nm	With window
YAGFL120	121.6	35.0	41.0	24.0	110.7	Triplet	1064nm	-
YAGFL163	162.6	34.0	41.0	16.5	155.4	Doublet	1064nm	-
YAGFL25A	25.0	13.0	21.0	17.0	18.8	Triplet	1064nm/635nm	Achromatic
YAGFL40A	40.0	26.0	36.0	22.0	29.8	Triplet	1064nm/635nm	Achromatic
YAGFL47A	47.0	34.0	42.0	30.0	31.9	Triplet	1064nm/635nm	Achromatic
YAGFL58A	58.0	34.0	41.0	23.0	48.5	Triplet	1064nm/635nm	Achromatic
YAGFL77A	77.0	34.0	41.0	23.0	63.5	Triplet	1064nm/635nm	Achromatic
YAGFL250A	249.8	48.0	57.0	14.5	237.6	Doublet	1064nm/635nm	Achromatic
532NMFL47	47.0	34.0	41.0	30.0	29.8	Triplet	532nm	-
532NMFL80	80.0	34.0	45.0	27.9	63.1	Triplet	532nm	-
532nmFL115	114.5	30.0	40.0	17.0	107.8	Doublet	532nm	-
532nmFL170	170.3	30.0	41.0	27.0	124.8	Doublet	532nm	-
532nmFL200	200.0	28.0	38.0	15.5	193.8	Doublet	532nm	-
532nmFL271	270.6	30.0	41.0	27.0	255.1	Doublet	532nm	-
355NMFL25	25.4	18.0	25.0	21.5	16.1	Triplet	355nm	-
355nmFL48	48.2	24.0	34.0	34.5	33.6	Doublet	355nm	-

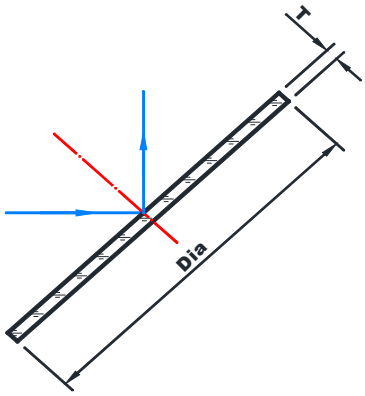
Part No.	EFL (mm)	CA (mm)	Dia (mm)	L1 (mm)	WD (mm)	Type	Wavelength	Remark
355NMFL60	60.0	28.0	40.0	27.0	47.8	Triplet	355nm	-
355NMFL63.7	63.7	24.0	36.0	22.0	51.7	Triplet	355nm	-
355nmFL86	86.4	28.0	40.0	23.2	65.1	Doublet	355nm	-
355nmFL115	115.0	30.0	40.0	20.0	106.4	Doublet	355nm	-
266nmFL46	46.3	23.0	40.0	20.0	43.1	Doublet	266nm	-
266NMFL57	57.3	28.0	40.0	23.5	44.6	Triplet	266nm	-
266nmFL82	82.4	30.0	40.0	20.0	73.8	Doublet	266nm	-
266nmFL115	115.0	30.0	40.0	20.0	101.1	Doublet	266nm	-

NOTE: Air-Spaced focusing lenses of different FL are available upon request

RBK/RFS Reflective Mirror



Laser reflecting mirrors must have low reflection losses, high optical quality and good resistance against extreme optical intensities. Laser mirrors are commonly created based on glass substrates such as BK7 or fused silica.



Specifications	
Diameter Tolerance	+0,-0.13mm
Thickness Tolerance	±0.25mm
Clear Aperture	>80%
Surface Flatness	λ/4@632.8nm
Parallelism	< 3 arc minutes
Surface Quality	40/20 scratch and dig
AOI	45 degree

Part No.	Dia (mm)	Thk (mm)	Material	Wavelength
RBK-19-3	19.0	3.0	BK7	HR@1064nm
RBK-19-3YG	19.0	3.0	BK7	HR@1064/532nm
RBK-19-3YGR	19.0	3.0	BK7	HR@1064/650/532nm
RBK-0.75-3YR	19.1	3.0	BK7	HR@1064/650nm
RBK-25-3	25.0	3.0	BK7	HR@1064nm
RBK-25-3YG	25.0	3.0	BK7	HR@1064/532nm
RBK-25-3YGR	25.0	3.0	BK7	HR@1064/650/532nm